BRUHATH BANGALORE MAHANAGARAPALIKE

YELAHANKA ZONE

1ST AND FINAL BILL

Name of Work :- Construction of RCC Drain & RCC Culverts at 1st and 2nd Cross and surrounding area, Muneshwara Nagara in Ward No.05

Work Order No: BBMP / EE/ BTP/ W.O /239/2019-20 dt: 21-03-2020

JOB NUMBER: 005-20-000076

Estimate Cost: 77.00 lakhs.

As No: AS/EE(BTP)/114/2019-20 dt:16-03-20

Ts No : TS/ SE(YNK) /52/2019-20 dt :16-03-20

Name of Contractor : M/S KRIDL

Item No	Description of Item	No	L	B	D1	D2	D(avg)	Unit	Qty	Rate in Rs	Amount
1	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification										
	Qty Taken from Pre measurement page Item No. 1 page No. 1 & 2							Cum	966.26	220.40	212963.70
2	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.										
	Qty Taken from Pre measurement page Item No. 2 Page No. 2 & 3							Cum	145.09	5509.33	799342.70
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm										
	For RCC drain										
	For Bottom raft										
	Muneshwara Nagara										
	1st cross from 1st main										
	RHS	1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	10.90	0.95	0.15	0.15	0.15		1.55		
	LHS										
		1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	19.00	0.95	0.15	0.15	0.15		2.71		
		1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	19.60	1.00	0.15	0.15	0.15		2.94		
	2nd cross from 1st										
	RHS	1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	14.60	1.00	0.15	0.15	0.15		2.19		
		1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	23.80	1.00	0.15	0.15	0.15		3.57		
	LHS										
		1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	30.00	0.95	0.15	0.15	0.15		4.28		

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	1	30.00	1.00	0.15	0.15	0.15		4.50		
	1	14.70	0.95	0.15	0.15	0.15		2.09		
	1	30.00	1.00	0.15	0.15	0.15		4.50		
	1	30.00	0.95	0.15	0.15	0.15		4.28		
	1	10.00	1.00	0.15	0.15	0.15		1.50		
	1	9.40	0.95	0.15	0.15	0.15		1.34		
3rd cross from Dead										
RHS	1	10.00	0.95	0.15	0.15	0.15		1.43		
For Wall										
Muneshwara Nagara										
1st cross from 1st main										
RHS	2	30.00	0.15	0.65	0.68	0.67		5.99		
	2	30.00	0.15	0.68	0.69	0.69		6.17		
	2	30.00	0.15	0.69	0.69	0.69		6.21		
	2	30.00	0.15	0.69	0.70	0.70		6.26		
	2	30.00	0.15	0.70	0.67	0.69		6.17		
	2	30.00	0.15	0.67	0.69	0.68		6.12		
	2	30.00	0.15	0.69	0.70	0.70		6.26		
	2	10.90	0.15	0.70	0.70	0.70		2.29		
LHS										
	2	30.00	0.15	0.66	0.67	0.67		5.99		
	2	30.00	0.15	0.67	0.68	0.68		6.08		
	2	30.00	0.15	0.68	0.65	0.67		5.99		
	2	30.00	0.15	0.65	0.67	0.66		5.94		
	2	19.00	0.15	0.67	0.69	0.68		3.88		
	2	30.00	0.15	0.69	0.70	0.70		6.26		
	2	30.00	0.15	0.70	0.69	0.70		6.26		
	2	19.60	0.15	0.69	0.70	0.70		4.09		
2nd cross from 1st										
RHS	2	30.00	0.15	0.65	0.65	0.65		5.85		
	2	30.00	0.15	0.65	0.67	0.66		5.94		
	2	30.00	0.15	0.67	0.69	0.68		6.12		
	2	30.00	0.15	0.69	0.70	0.70		6.26		
	2	14.60	0.15	0.70	0.68	0.69		3.02		
	2	30.00	0.16	0.68	0.70	0.69		6.62		
	2	30.00	0.15	0.70	0.70	0.70		6.30		
	2	23.80	0.15	0.70	0.68	0.69		4.93		
LHS										
	2	30.00	0.15	0.65	0.65	0.65		5.85		
	2	30.00	0.15	0.65	0.65	0.65		5.85		
	2	30.00	0.15	0.65	0.66	0.66		5.90		
	2	30.00	0.15	0.66	0.68	0.67		6.03		
	2	14.70	0.15	0.68	0.69	0.69		3.02		
	2	30.00	0.15	0.69	0.70	0.70		6.26		
	2	30.00	0.15	0.70	0.70	0.70		6.30		
	2	10.00	0.15	0.70	0.69	0.70		2.09		
	2	9.40	0.15	0.69	0.70	0.70		1.96		
3rd cross from Dead										
RHS	2	10.00	0.15	0.67	0.68	0.68		2.03		
Ramp										
	1	6.00	1.00	0.15	0.15	0.15		0.90		
	1	13.20	1.20	0.15	0.15	0.15		2.38		
	1	16.00	1.20	0.15	0.15	0.15		2.88		
	1	8.00	1.10	0.15	0.15	0.15		1.32		
						Present Qty		316.13	7189.42	2272799.04
4	Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications									
	Qty Taken from Pre measurement page Item No. 3 Page No. 3 to 5						Tonne	20.66	72326.98	1494253.08

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oviding and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using										
ded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortor										
cluding form work, lift charges,curing and concrtee finished surface on both sides etc,and complete as per										
e directions of Enginner in charges.(Data Rate)										
or RCC drain										
Muneshwara Nagara										
st cross from 1st main										
LHS	1	30.00	0.90					27.00		
	1	30.00	0.90					27.00		
	1	30.00	0.90					27.00		
	1	27.50	0.90					24.75		
	1	30.00	0.90					27.00		
	1	30.00	0.90					27.00		
	1	30.00	0.90					27.00		
	1	10.90	0.90					9.81		
LHS										
	1	30.00	0.90					27.00		
	1	30.00	0.90					27.00		
	1	30.00	0.90					27.00		
	1	30.00	0.90					27.00		
	1	19.00	0.90					17.10		
	1	30.00	0.90					27.00		
	1	30.00	0.90					27.00		
	1	19.60	0.90					17.64		
2nd cross from 1st										
RHS	1	30.00	0.90					27.00		
	1	30.00	0.90					27.00		
	1	30.00	0.90					27.00		
	1	30.00	0.90					27.00		
	1	14.60	0.90					13.14		
	1	30.00	0.90					27.00		
	1	30.00	0.90					27.00		
	1	23.80	0.90					21.42		
LHS										
	1	30.00	0.90					27.00		
	1	30.00	0.90					27.00		
	1	30.00	0.90					27.00		
	1	30.00	0.90					27.00		
	1	14.70	0.90					13.23		
	1	30.00	0.90					27.00		
	1	30.00	0.90					27.00		
	1	10.00	0.90					9.00		
	1	9.40	0.90					8.46		
3rd cross from Dead										
RHS	1	10.00	0.90					9.00		
					Present Qty=		Sqm	791.55	2337.00	1849852.35
									Total	6629210.88
									GST Charges 12%	795505.31
									KRIDL Charges 4%	265168.44
									Grand Total	7689884.62

Assistant Engineer
Ward No.05

Assistant Executive Engineer
Bytarayanapura Sub-Division

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Name of Work :- Construction of RCC Drain & RCC Culverts at 1st and 2nd Cross and surrounding area, Muneshwara Nagara in Ward No.05

Pre-Measurements

Pre measurement recorded on:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
1	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification						
	For RCC drain						
	Muneshwara Nagara						
	1st cross from 1st main road						
	RHS	1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	10.90	1.10	1.00	11.99	
	LHS						
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	19.00	1.10	1.00	20.90	
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	19.60	1.10	1.00	21.56	
	2nd cross from 1st main road						
	RHS	1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	14.60	1.10	1.00	16.06	
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	23.80	1.10	1.00	26.18	
	LHS						
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	14.70	1.10	1.00	16.17	
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	10.00	1.00	1.00	10.00	
		1	9.40	1.00	1.00	9.40	

24/3/20

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9/5/2020

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	3rd cross from Dead End						
	RHS	1	10.00	1.00	0.90	9.00	
					Present Qty	**966.26**	**Cum**

Assistant Engineer
Ward No:05

Asst. Executive Engineer,
Byatarayanapura Sub division

2	Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications.						
	For RCC drain						
	Muneshwara Nagara						
	1st cross from 1st main road						
	RHS	1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	10.90	1.10	0.15	1.80	
	LHS						
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	19.00	1.10	0.15	3.14	
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	19.60	1.10	0.15	3.23	
	2nd cross from 1st main road						
	RHS	1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	14.60	1.10	0.15	2.41	
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	23.80	1.10	0.15	3.93	
	LHS						
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	14.70	1.10	0.15	2.43	
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	

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		1	10.00	1.00	0.15	1.50	
		1	9.40	1.00	0.15	1.41	
	3rd cross from Dead End	-					
	RHS	1	10.00	1.00	0.15	1.50	
					Present Qty	**145.09**	**Cum**

Assistant Engineer
Ward No.05

9/5/2020

Asst. Executive Engineer,
Byatarayanapura Sub division

3	Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.						
	Muneshwara Nagara						
	1st cross						
	RHS						
	Total Drain length=210.00Mtr						
	Main bar 10mm dia bar @ 125mm c/c						
	0.617kg/mtr						
	No of U Bars = 1510 No's	1510	2.30		0.62	2143.83	
	Distribution bar 10mm dia @ 125mm c/c						
	0.617kg/mtr	20	210.00		0.62	2592.59	
	Total Drain length=10.90Mtr						
	Main bar 10mm dia bar @ 125mm c/c						
	0.617kg/mtr						
	No of U Bars = 88 No's	88	2.30		0.62	124.94	
	Distribution bar 10mm dia @ 125mm c/c						
	0.617kg/mtr	20	10.90		0.62	134.57	
	LHS						
	Total Drain length=120.00Mtr						
	Main bar 10mm dia bar @ 125mm c/c						
	0.617kg/mtr						
	No of U Bars =960 No's	960	2.30		0.62	1362.96	
	Distribution bar 10mm dia @ 125mm c/c						
	0.617kg/mtr	20	120.00		0.62	1481.48	
	Total Drain length=19.00Mtr						
	Main bar 10mm dia bar @ 125mm c/c						
	0.617kg/mtr						
	No of U Bars =152 No's	152	2.30		0.62	215.80	
	Distribution bar 10mm dia @ 125mm c/c						
	0.617kg/mtr	20	19.00		0.62	- 234.57	
	Total Drain length=60.00Mtr						
	Main bar 10mm dia bar @ 125mm c/c						
	0.617kg/mtr						
	No of U Bars =480 No's	480	2.30		0.62	681.48	
	Distribution bar 10mm dia @ 125mm c/c						
	0.617kg/mtr	20	60.00		0.62	740.74	

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Total Drain length=19.60Mtr						
Main bar 10mm dia bar @ 125mm c/c						
0.617kg/mtr						
No of U Bars =157 No's	157	2.30		0.62	222.90	
Distribution bar 10mm dia @ 125mm c/c						
0.617kg/mtr	20	19.60		0.62	241.98	
2nd cross						
RHS						
Total Drain length=120.00Mtr						
Main bar 10mm dia bar @ 125mm c/c						
0.617kg/mtr						
No of U Bars =960 No's	960	2.30		0.62	1362.96	
Distribution bar 10mm dia @ 125mm c/c						
0.617kg/mtr	20	120.00		0.62	1481.48	
Total Drain length=14.60Mtr						
Main bar 10mm dia bar @ 125mm c/c						
0.617kg/mtr						
No of U Bars =117 No's	117	2.30		0.62	166.11	
Distribution bar 10mm dia @ 125mm c/c						
0.617kg/mtr	20	14.60		0.62	180.25	
Total Drain length=60.00Mtr						
Main bar 10mm dia bar @ 125mm c/c						
0.617kg/mtr						
No of U Bars =480 No's	480	2.30		0.62	681.48	
Distribution bar 10mm dia @ 125mm c/c						
0.617kg/mtr	20	60.00		0.62	740.74	
Total Drain length=23.80Mtr						
Main bar 10mm dia bar @ 125mm c/c						
0.617kg/mtr						
No of U Bars =191 No's	191	2.30		0.62	271.17	
Distribution bar 10mm dia @ 125mm c/c						
0.617kg/mtr	20	23.80		0.62	293.83	
LHS						
Total Drain length=120.00Mtr						
Main bar 10mm dia bar @ 125mm c/c						
0.617kg/mtr						
No of U Bars =960 No's	960	2.30		0.62	1362.96	
Distribution bar 10mm dia @ 125mm c/c						
0.617kg/mtr	20	120.00		0.62	1481.48	
Total Drain length=14.70Mtr						
Main bar 10mm dia bar @ 125mm c/c						
0.617kg/mtr						
No of U Bars =118 No's	118	2.30		0.62	167.53	
Distribution bar 10mm dia @ 125mm c/c						
0.617kg/mtr	20	14.70		0.62	181.48	
Total Drain length=60.00Mtr						
Main bar 10mm dia bar @ 125mm c/c						

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	0.617kg/mtr						
	No of U Bars =480 No's	480	2.30		0.62	681.48	
	Distribution bar 10mm dia @ 125mm c/c						
	0.617kg/mtr	20	60.00		0.62	740.74	
	Total Drain length=19.40Mtr						
	Main bar 10mm dia bar @ 125mm c/c						
	0.617kg/mtr						
	No of U Bars =156 No's	156	2.30		0.62	221.48	
	Distribution bar 10mm dia @ 125mm c/c						
	0.617kg/mtr	20	19.40		0.62	239.51	
	3rd cross						
	RHS						
	Total Drain length=10.00Mtr						
	Main bar 10mm dia bar @ 125mm c/c						
	0.617kg/mtr						
	No of U Bars =80 No's	80	2.30		0.62	113.58	
	Distribution bar 10mm dia @ 125mm c/c						
	0.617kg/mtr	18	10.00		0.62	113.58	
					Present Qty	**20659.69**	**Kg**
					Present Qty	**20.66**	**Tonne**

22/5/20

Assistant Engineer
Ward No.05

22/5/2020

Asst. Executive Engineer,
Byatarayanapura Sub division

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